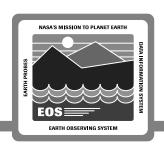


Release Planning Rich Barbiere

System Design Review - 29 June 1994

Release Planning Topics

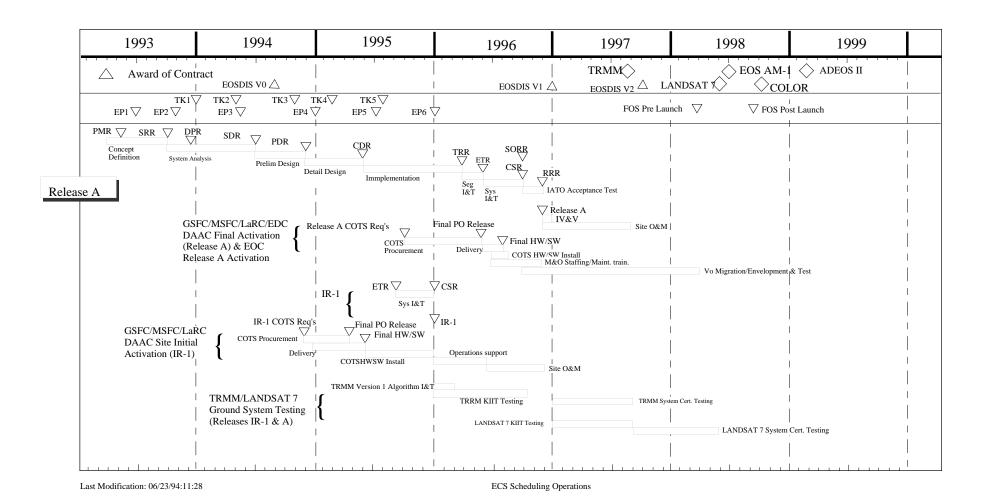


- Release Schedules
- Release Requirements Baseline
- External Driving Requirements/Milestones
- ECS Functional Capabilities and Services
- Software Size Estimates



EARTH OBSERVING SYSTEM

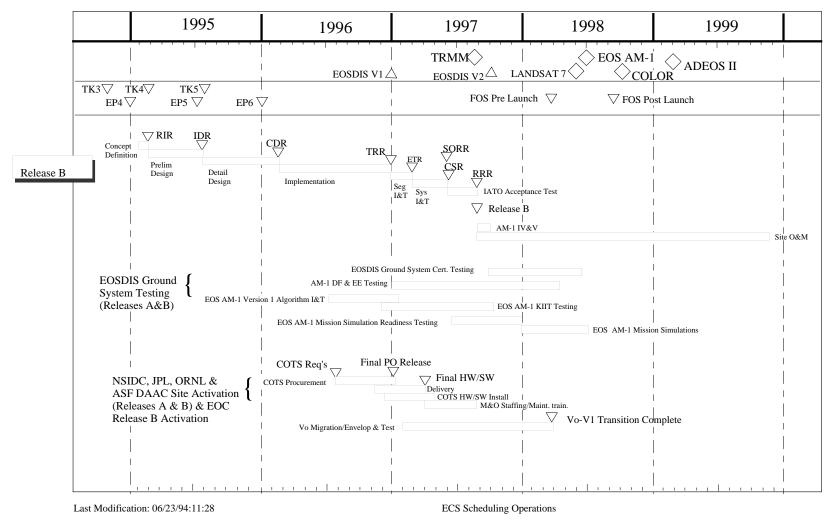
ECS Master Schedule



194-703-PP1-001 RB-3

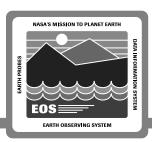




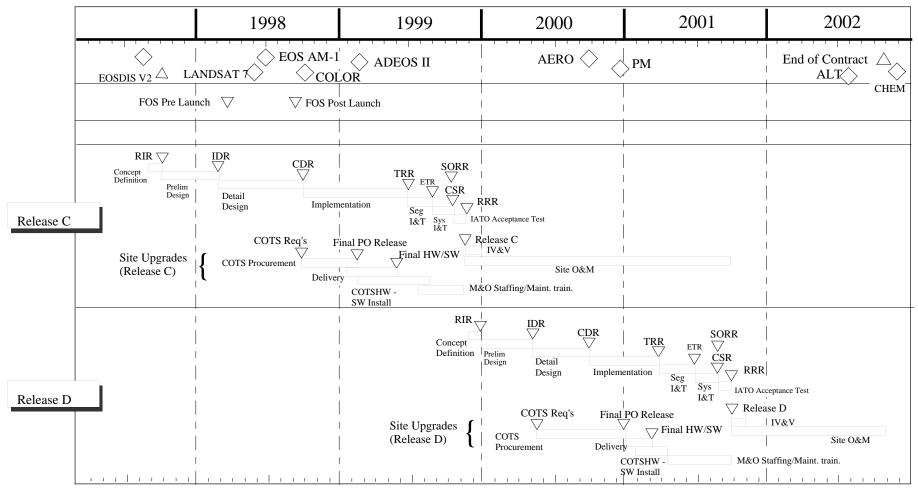


194-703-PP1-001 RB-4





ECS Master Schedule



Last Modification: 06/23/94:11:28

ECS Scheduling Operations

Release Requirements Baseline - Overview



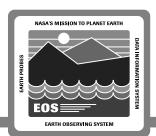
- F&PRS Requirements were allocated to Releases IR-1, A, B, C & D based upon the Functional Capabilities and Services in the 29 April Release Plan
 - Requirements allocations were based upon their classification as Mission Critical, Mission Essential and Mission Fulfillment
- IRDs were assigned to Releases based upon the Release Plan and Agreements made at the bi-weekly EOSDIS Ground System Integration Meetings
- Allocation of F&PRS and IRD Requirements to Releases is contained in the RTM Database

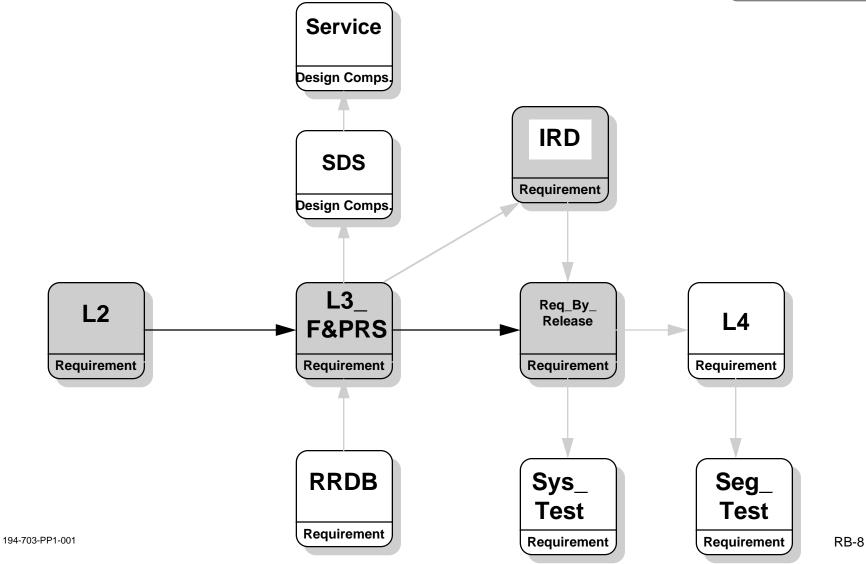
Release Requirements Baseline - IRD Assignment to Releases



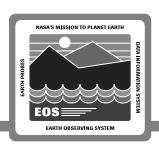
| | | 1 | |
|-------------------|--|--|--|
| Release | IRD # | TITLE (ECS to) | |
| Interim Release 1 | 2, 4, 7, 178, 21 | SCFs, External Nets/ NSI, TRMM, NASCOM and PSCN | |
| Release A | 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 16, 18, 21 & 26 | Version 0, SCFs, DAAC Unique, External Nets/NSI, Landsat 7, MITI/ASTER, TRMM, EDOS, ECS AM-1, ECOM, ADCs/NOAA, ODCs, ESA, NASDA, NASA Instititutional, PSCN, and COLOR | |
| Release B | 6, 14, 16 & 26 | MITI/ASTER, ESA, NASDA, and COLOR | |
| Release C | 20 & 23 | AERO and EOS PM | |
| Release D | 22 & 24 | ALT and CHEM | |

Release Requirements Baseline - RTM Database





External Driving Requirements/ Milestones



- Interim Release 1
 - TRMM Early Interface Testing Support
 - TRMM Version 1 Science Algorithm I & T
 - EOS AM-1 Beta and Version 1 Science Algorithm I & T
- Release A
 - TRMM Science Operations Support
 - TRMM Ground Systems Certification Testing Support
 - TRMM and EOS AM-1 Version 2 Science Algorithm I & T
 - Landsat 7 Early Interface Testing Support
 - EOS AM-1 Early Interface Testing Support
 - EOS AM-1 Data Flow and End-to-End Testing Support
 - EOS AM-1 Simulator (SSIM) Readiness Testing Support
 - V0 and ADC Interoperability

External Driving Requirements/ Milestones (con't)



Release B

- EOS AM-1 Mission Operations Support
- EOS AM-1 Data Flow and End-to-End Testing Support
- EOS AM-1 Mission Simulations Support
- Landsat 7 Science Operations Support
- COLOR Science Operations Support

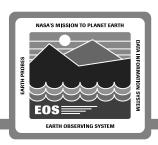
Release C

- EOS PM Mission Operations Support
- AERO Mission Operations Support
- Evolutionary Enhancements

Release D

- Alt Mission Operations Support
- CHEM Mission Operations Support
- Evolutionary Enhancements

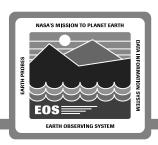
ECS Functional Capabilities

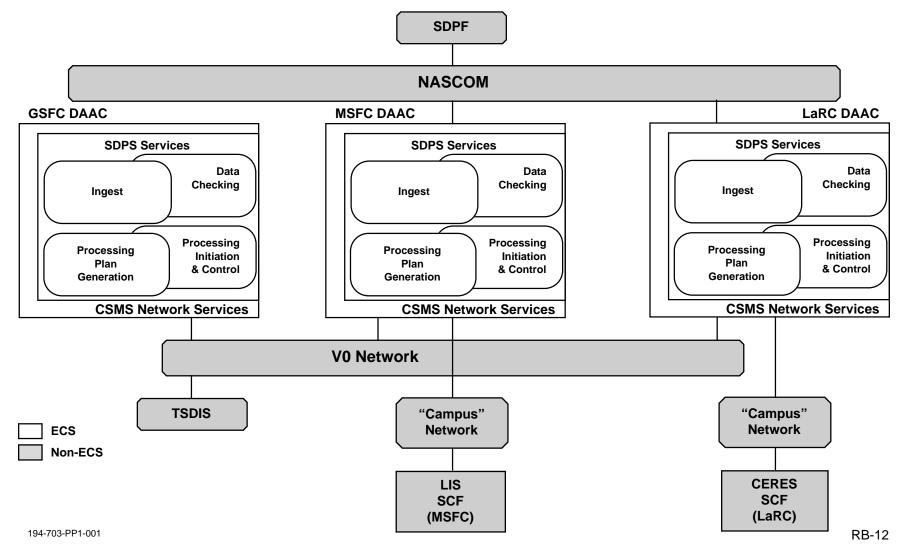


Interim Release 1

- MSFC, LaRC and GSFC Initial Site Activation
- TRMM Data Ingest at 3 Sites
- TSDIS to ECS and SDPF to ECS Data Transfer
- SCF to ECS Data Transfer (Algorithms & Support Data)
- Full PGS Toolkit and Algorithm I & T Environment to Support:
 - LIS and CERES (TRMM) Version 1 Algorithm I & T
 - MODIS and MISR Beta Algorithm I & T
 - MODIS, MISR and MOPITT Version 1 Algorithm I & T

ECS - Interim Release 1





ECS Functional Capabilities (continued)

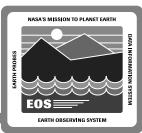


Release A

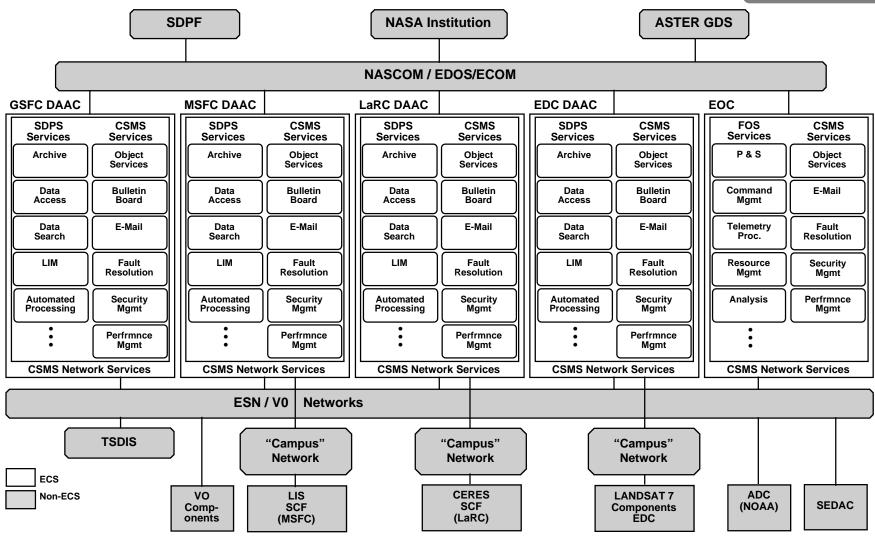
- MSFC, LaRC and GSFC Final Site Activation for TRMM Science Operations Support
- Initial Activation of EDC, NSIDC, JPL, ASF and ORNL DAACs
- Interoperable with SEDAC (ECS to SEDAC)
- Two-Way Interoperability with Version 0
- TRMM CERES and LIS Data Processing Support
- TRMM Data Access and Distribution
- DAAC Information Management
- Version 2 Algorithm I & T Support for TRMM Instruments
- Online Archive for Version 0 Data Migration and TRMM Support
- Ancillary Data Ingest from NOAA to Support TRMM

ECS - Release A

194-703-PP1-001



RB-14



ECS Functional Capabilities (continued)



Release A (con't)

- FOS Core Functionality to perform EOS AM-1 Spacecraft and Instrument Command and Control Testing and Ground Interface Testing (EDOS, ECOM, FDF, NCC ...)
- Release A Activation of EOC
- Version 2 Algorithm I & T Support to EOS AM-1 Instruments
- Landsat 7 Early Interface Test Support

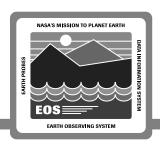
ECS Functional Capabilities (continued)

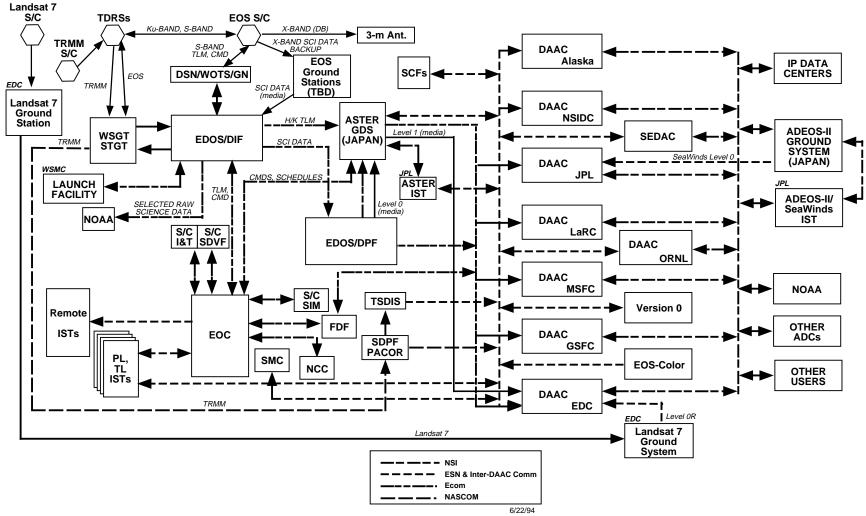


Release B

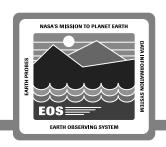
- FOS Full Functionality to Support EOS AM-1 Spacecraft Mission Operations and Mission Simulations
- Full Functionality to Support Landsat 7 and COLOR Science Operations
- Full Functionality to Support EOS AM-1 Science Data Processing
- Release B Activation of EOC
- Final Activation of EDC, NSIDC, JPL, ASF and ORNL DAACs
- ASTER DAR Processing
- Online Archive for EOS AM-1, Landsat 7, COLOR and V0 V1 Transition Completion
- Backup Storage Capacity (1 Year) for Level 0 Data







Software Size Estimates



| | SDPS | FOS | CSMS | TOTAL (K SLOCS) |
|-------------------|-------|-------|-------|--------------------|
| Interim Release 1 | 69.0 | 0.0 | 38.0 | 107.0 |
| Release A | 168.0 | 202.0 | 63.0 | 433.0 |
| Release B | 151.0 | 166.0 | 116.0 | 433.0 |
| Release C | 49.0 | 168.0 | 47.0 | 264.0 |
| Release D | 16.0 | 181.0 | 27.0 | 224.0 |
| Total ECS | 453.0 | 717.0 | 291.0 | 1461.0 |